

# Andrea Schenk

## List of Publications by Year in descending order

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77  
papers

1,888  
citations

279701

23  
h-index

276775

41  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of vasculature for liver surgical planning. IEEE Transactions on Medical Imaging, 2002, 21, 1344-1357.	5.4	377
2	Automatic liver tumor segmentation in CT with fully convolutional neural networks and object-based postprocessing. Scientific Reports, 2018, 8, 15497.	1.6	155
3	Efficient Semiautomatic Segmentation of 3D Objects in Medical Images. Lecture Notes in Computer Science, 2000, , 186-195.	1.0	91
4	3D CT modeling of hepatic vessel architecture and volume calculation in living donated liver transplantation. European Radiology, 2004, 14, 326-333.	2.3	80
5	Preoperative Volume Prediction in Adult Living Donor Liver Transplantation: How Much Can We Rely on It?.. American Journal of Transplantation, 2007, 7, 672-679.	2.6	77
6	Experimental Evaluation of the Heat Sink Effect in Hepatic Microwave Ablation. PLoS ONE, 2015, 10, e0134301.	1.1	62
7	Influence of Intrahepatic Vessels on Volume and Shape of Percutaneous Thermal Ablation Zones. Investigative Radiology, 2008, 43, 211-218.	3.5	55
8	Spatio-Temporal Simulation of First Pass Drug Perfusion in the Liver. PLoS Computational Biology, 2014, 10, e1003499.	1.5	41
9	Pre-treatment estimation of future remnant liver function using gadoxetic acid MRI in patients with HCC. Journal of Hepatology, 2016, 65, 1155-1162.	1.8	41
10	Reducing inter-observer variability and interaction time of MR liver volumetry by combining automatic CNN-based liver segmentation and manual corrections. PLoS ONE, 2019, 14, e0217228.	1.1	40
11	Zonated quantification of steatosis in an entire mouse liver. Computers in Biology and Medicine, 2016, 73, 108-118.	3.9	39
12	ERRATUM. Transplantation, 2008, 85, 1866.	0.5	33
13	Application and Evaluation of Interactive 3D PDF for Presenting and Sharing Planning Results for Liver Surgery in Clinical Routine. PLoS ONE, 2014, 9, e115697.	1.1	33
14	Concepts for Liver Segment Classification: Neither Old Ones nor New Ones, but a Comprehensive One. Journal of Clinical Imaging Science, 2013, 3, 48.	0.4	32
15	Anisotropic 3D Multi-Stream CNN for Accurate Prostate Segmentation from Multi-Planar MRI. Computer Methods and Programs in Biomedicine, 2021, 200, 105821.	2.6	32
16	Ex situ quantification of the cooling effect of liver vessels on radiofrequency ablation. Langenbeck's Archives of Surgery, 2009, 394, 475-481.	0.8	30
17	An efficient level set method for simultaneous intensity inhomogeneity correction and segmentation of MR images. Computerized Medical Imaging and Graphics, 2016, 48, 9-20.	3.5	28
18	Practical quantification of necrosis in histological whole-slide images. Computerized Medical Imaging and Graphics, 2013, 37, 313-322.	3.5	27

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19	Intraoperative augmented reality for minimally invasive liver interventions. , 2003, , .		26
20	Establishment of a rat model: Associating liver partition with portal vein ligation for staged hepatectomy. Surgery, 2016, 159, 1299-1307.	1.0	26
21	<title>Local-cost computation for efficient segmentation of 3D objects with live wire</title> . , 2001, , .		25
22	Small-for-Size Syndrome in the Rat: Does Size or Technique Matter?. Journal of Surgical Research, 2008, 149, 15-26.	0.8	25
23	Imaging and surgical planning for perihilar cholangiocarcinoma. Journal of Hepato-Biliary-Pancreatic Sciences, 2014, 21, 525-532.	1.4	25
24	Minimal vascular flows cause strong heat sink effects in hepatic radiofrequency ablation ex vivo. Journal of Hepato-Biliary-Pancreatic Sciences, 2016, 23, 508-516.	1.4	25
25	Matching of anatomical tree structures for registration of medical images. Image and Vision Computing, 2009, 27, 923-933.	2.7	24
26	Precise Local Resection for Hepatocellular Carcinoma Based on Tumor-Surrounding Vascular Anatomy Revealed by 3D Analysis. Digestive Surgery, 2012, 29, 99-106.	0.6	23
27	Intrahepatic Vascular Anatomy in Rats and Miceâ€”Variations and Surgical Implications. PLoS ONE, 2015, 10, e0141798.	1.1	23
28	In vivo validation of a therapy planning system for laser-induced thermotherapy (LITT) of liver malignancies. International Journal of Colorectal Disease, 2011, 26, 799-808.	1.0	20
29	Portal Vein Segmentation of a 3D-Planning System for Liver Surgeryâ€™InÂvivo Evaluation in a Porcine Model. Annals of Surgical Oncology, 2008, 15, 1899-1907.	0.7	19
30	Clinical relevance of model based computer-assisted diagnosis and therapy. Proceedings of SPIE, 2008, , .	0.8	19
31	Preoperative volume calculation of the hepatic venous draining areas with multi-detector row CT in adult living donor liver transplantation: impact on surgical procedure. European Radiology, 2006, 16, 2803-2810.	2.3	16
32	Interactive determination of robust safety margins for oncologic liver surgery. International Journal of Computer Assisted Radiology and Surgery, 2009, 4, 469-474.	1.7	16
33	Computer-assisted surgery planning in children with complex liver tumors identifies variability of the classical Couinaud classification. Journal of Pediatric Surgery, 2016, 51, 1801-1806.	0.8	16
34	Vascular and Biliary Anatomy of the Right Hilar Window: Its Impact on Recipient Morbidity and Mortality for Right Graft Live Donor Liver Transplantation. World Journal of Surgery, 2009, 33, 1941-1951.	0.8	15
35	Quantification of Hepatic Vascular and Parenchymal Regeneration in Mice. PLoS ONE, 2016, 11, e0160581.	1.1	15
36	Donor/recipient algorithm for management of the middle hepatic vein in right graft live donor liver transplantation. American Journal of Surgery, 2010, 199, 708-715.	0.9	13

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37	Fast and accurate identification of fat droplets in histological images. Computer Methods and Programs in Biomedicine, 2015, 121, 59-65.	2.6	13
38	“Anatomical” versus “Territorial” Belonging of the Middle Hepatic Vein: Virtual Imaging and Clinical Repercussions. Journal of Surgical Research, 2011, 166, 146-155.	0.8	12
39	A comparison of sampling strategies for histological image analysis. Journal of Pathology Informatics, 2012, 2, 11.	0.8	12
40	Limited Correlation Between Conventional Pathologist and Automatic Computer-Assisted Quantification of Hepatic Steatosis due to Difference Between Event-Based and Surface-Based Analysis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1473-1477.	3.9	12
41	Multimodal image registration for liver radioembolization planning and patient assessment. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 215-225.	1.7	11
42	Recent Developments in Organ-Selective Reconstruction and Analysis of Multiphase Liver CT. Imaging Decisions (Berlin, Germany), 2003, 7, 37-43.	0.2	10
43	Planning of Image-Guided Interventions in the Liver. IEEE Pulse, 2011, 2, 48-55.	0.1	10
44	Hepatic Hilar and Sectorial Vascular and Biliary Anatomy in Right Graft Adult Live Liver Donor Transplantation. Transplantation Proceedings, 2008, 40, 3147-3150.	0.3	9
45	Formation of Venous Collaterals and Regeneration in the Donor Remnant Liver: Volumetric Analysis and Three-Dimensional Visualization. Transplantation Proceedings, 2009, 41, 2515-2517.	0.3	9
46	Predictive SIRT dosimetry based on a territorial model. EJNMMI Physics, 2017, 4, 25.	1.3	9
47	Matching of Tree Structures for Registration of Medical Images. Lecture Notes in Computer Science, 2007, , 13-24.	1.0	9
48	Case Report: Virtual and Interactive 3D Vascular Reconstruction Before Planned Pancreatic Head Resection and Complex Vascular Anatomy: A Bench-To-Bedside Transfer of New Visualization Techniques in Pancreatic Surgery. Frontiers in Surgery, 2020, 7, 38.	0.6	8
49	Robust Segmentation Models Using an Uncertainty Slice Sampling-Based Annotation Workflow. IEEE Access, 2022, 10, 4728-4738.	2.6	8
50	Focused scores enable reliable discrimination of small differences in steatosis. Diagnostic Pathology, 2018, 13, 76.	0.9	7
51	Optimierte semi-automatische Segmentierung von 3D-Objekten mit Live Wire und Shape-Based Interpolation. Informatik Aktuell, 2001, , 202-206.	0.4	7
52	A New Systematic Classification of Peripheral Anatomy of the Right Hepatic Duct: Experience From Adult Live Liver Donor Transplantation. Transplantation Proceedings, 2008, 40, 3158-3160.	0.3	6
53	Liver “Compliance”: A Previously Unrecognized Preoperative Predictor of Small-for-Size Syndrome in Adult Living Donor Liver Transplantation. Transplantation Proceedings, 2008, 40, 3142-3146.	0.3	5
54	Intrahepatic Size Regulation in a Surgical Model: Liver Resection-Induced Liver Regeneration Counteracts the Local Atrophy following Simultaneous Portal Vein Ligation. European Surgical Research, 2016, 57, 125-137.	0.6	5

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55	Tangible Organs. , 2019, , .		5
56	The influence of accessory right inferior hepatic veins on the venous drainage in right graft living donor liver transplantation. Hepato-Gastroenterology, 2006, 53, 479-83.	0.5	5
57	Planning of anatomical resections and in situ ablations in oncologic liver surgery. International Congress Series, 2003, 1256, 684-689.	0.2	4
58	A fast and robust hepatocyte quantification algorithm including vein processing. BMC Bioinformatics, 2010, 11, 124.	1.2	4
59	Landmark-based evaluation of a deformable motion correction for DCE-MRI of the liver. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 597-606.	1.7	4
60	A Study on the Size of Tangible Organ-shaped Controllers for Exploring Medical Data in VR. , 2021, , .		4
61	Parenchyma transection in adult live donor liver transplantation: the virtual dilemma of "where to cut". Experience based on virtual 3-dimensional computed tomography imaging reconstructions. Hepato-Gastroenterology, 2006, 53, 811-5.	0.5	4
62	Visualization of Vascular and Parenchymal Regeneration after 70% Partial Hepatectomy in Normal Mice. Journal of Visualized Experiments, 2016, , .	0.2	3
63	Younger Age is an Independent Factor for Graft Weight Overestimation: Analysis of the Clinical Impact on Recipient Outcomes in 340 Japanese Living Liver Donors. World Journal of Surgery, 2018, 42, 218-224.	0.8	3
64	Median liver lobe of woodchuck as a model to study hepatic outflow obstruction: a pilot study. Liver International, 2008, 28, 1236-1244.	1.9	2
65	Remote Visualization Techniques for Medical Imaging Research and Image-Guided Procedures. Mathematics and Visualization, 2016, , 133-154.	0.4	2
66	Vollautomatische Vorverarbeitung und rigide Registrierung zur Rekonstruktion von Bildern histologischer Stufenschnitte der Rattenleber. , 2007, , 419-423.		2
67	Adaptive Illumination Sampling for Direct Volume Rendering. Lecture Notes in Computer Science, 2020, , 107-118.	1.0	2
68	Evaluating Soft Organ-Shaped Tangibles for Medical Virtual Reality. , 2022, , .		2
69	PrÄazisionssteigerung in der Operationsplanung hilÄrer Gallengangkarzinome: Erste Erfahrungen mit der computerunterstÄtzten 3D-CT-Bildgebung. Visceral Medicine, 2004, 20, 78-81.	0.5	1
70	Anatomical Classification of the Peripheral Right Hepatic Duct: Early Identification of a Preventable Source of Morbidity and Mortality in Adult Live Donor Liver Transplantation. Transplantation Proceedings, 2008, 40, 3155-3157.	0.3	1
71	Towards realistic organ models for 3D printing and visualization. Current Directions in Biomedical Engineering, 2021, 7, 166-170.	0.2	1
72	Matching von Baumstrukturen. , 2007, , 116-120.		1

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73	Donor evaluation in living related liver transplantation: a new non-invasive method. Journal of Hepatology, 2002, 36, 37.	1.8	0
74	Intrahepatic Biliary Anatomy Derived From Right Graft Adult Live Donor Liver Transplantation. Transplantation Proceedings, 2008, 40, 3151-3154.	0.3	0
75	Ex situ quantification of the cooling effect of liver vessels on radiofrequency ablation. Journal of the American College of Surgeons, 2009, 209, S23.	0.2	0
76	Kombination von Bildanalyse und physikalischer Simulation für die Planung von Behandlungen maligner Lebertumoren mittels laserinduzierter Thermotheapie. Informatik Aktuell, 2003, , 428-432.	0.4	0
77	Planung von Leberresektionen. , 2011, , 515-524.		0